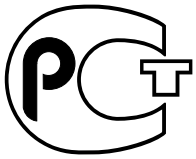
LG

LCD
Colour Television
OWNER'S MANUAL



BZ03

Please read this manual carefully before operating your set.
Retain it for future reference.
Record model number and serial number of the set.
See the label attached on the back cover and quote this information to your dealer when you require service.

Model number :
Serial number :

Contents

Installation 3

Location and function of controls 4
- Remote control handset
- Battery installation
- Side panel / Top panel

Basic operation 7
- On and off / Programme selection
- Volume adjustment / Quick view
- Mute function / Auto Demonstration
- On screen language selection (option)

On screen menus 8
- Menu selection

Setting up TV stations 9
- Auto programme tuning
- Manual programme tuning
- Fine Tuning
- Programme edit
- Favourite programme
- Calling the programme table

Picture adjustment 14
- Picture adjustment
- Picture format (option)

Sound adjustment 15
- Sound adjustment
- Stereo/Dual reception / NICAM reception (option)
- Sound output selection

Time setting 17
- Clock
- Off time / On time

Other functions 18
- TV, AV and PC monitor modes / Auto AV switching
- Child lock / Auto sleep / Sleep timer

Teletext (option) 20
- Switch on/off
- SIMPLE text
- TOP text (option)
- FASTEXT mode
- Special teletext functions

Connection of external equipment 23
- Aerial socket
- Euro scart socket
- Audio/Video in sockets
- S-Video/Audio in sockets (S-AV) (option)
- Headphone socket

Connection of PC 25
- Picture adjustment
- PC in socket (D-Sub jack)

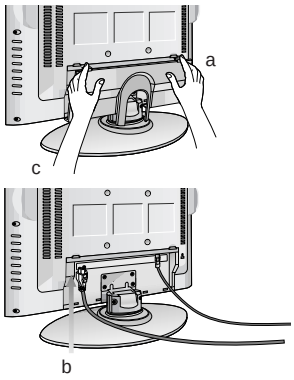
Troubleshooting check list 27

Installation

Power

This set operates on an AC mains supply, the voltage is as indicated on the label on the back cover. Never apply DC power to the set. In the event of thunderstorms or powercuts, please pull out the aerial and mains plugs.

a. Open the back panel cover.
b. After connecting the power cord and the aerial to the set.
c. Close the back panel cover.

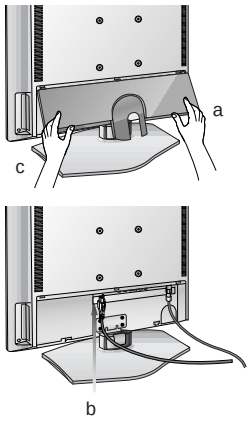


Warning

To prevent fire or shock hazard, do not expose the set to rain or moisture. Do not rub or strike the Active Matrix LCD with anything hard as this may scratch, mar, or damage the Active Matrix LCD permanently.

Service

Never remove the back cover of the set as this can expose you to high voltage and other hazards. If the set does not operate properly, unplug it and call your dealer.

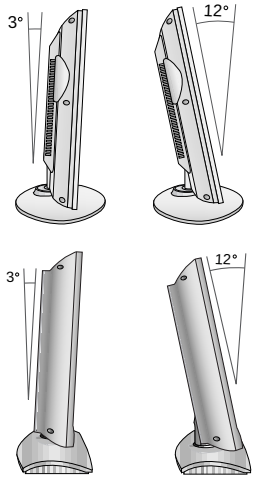


Aerial

Connect the aerial cable to the socket marked ⟘75 Ω on the back. For the best reception an outdoor aerial should be used.

Location

Position your set so that no bright light or sunlight falls directly onto the screen. Care should be taken not to expose the set to any unnecessary vibration, moisture, dust or heat. Also ensure that the set is placed in a position to allow a free flow of air. Do not cover the ventilation openings on the back cover.
The standing angle can be adjusted as shown in pictures.
When you install the set to use the wall mounting bracket (optional parts), fix it carefully so as not to drop. The set has Kensington Security System Connector on the back panel. Connect the Kensington Security system cable (not supplied).



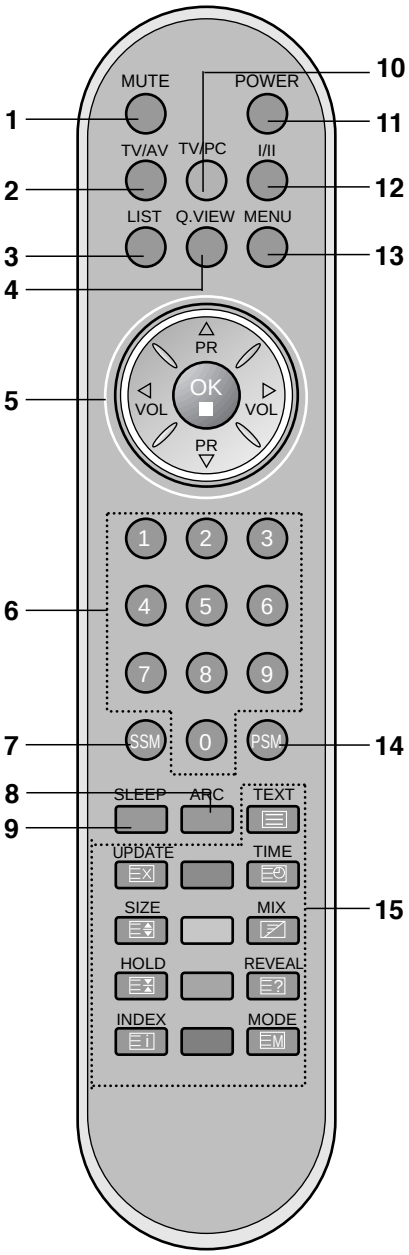
Cleaning

Unplug the set before cleaning the face of the LCD Screen. Dust the set by wiping the screen and the cabinet with a soft, clean cloth. If the screen requires additional cleaning, use a clean, damp cloth. Do not use liquid cleaners or aerosol cleaners.

Location and function of controls

All the functions can be controlled with the remote control handset. Some functions can also be adjusted with the buttons on the side panel of the set.
Only the remote control handset supplied will operate this set.

Remote control handset



Before you use the remote control handset, please install the batteries. See the next page.

1. **MUTE**
   switches the sound on or off.

2. **TV/AV**
   selects TV or AV mode.
   clears the menu from the screen.
   switches the set on from standby.

3. **LIST**
   displays the programme table.

4. **Q.VIEW**
   returns to the previously viewed programme.
   selects a favourite programme.

5. **▲ / ▼ (Programme Up/Down)**
   selects a programme or a menu item.
   switches the set on from standby.
   ◄ / ► (Volume Up/Down)
   adjusts the volume.
   adjusts menu settings.
   OK
   accepts your selection or displays the current mode.

6. **NUMBER BUTTONS**
   switches the set on from standby or directly select a number.

7. **SSM (Sound Status Memory)**
   recalls your preferred sound setting.

8. **ARC (option)**
   select your desired picture format.

9. **SLEEP**
   sets the sleep timer.

Location and function of controls

10. TV/PC
selects TV or PC mode.
clears the menu from the screen.
switches the set on from standby.

11. POWER
switches the set on from standby or off to standby.

12. I/II
selects the language during dual language broadcast.
selects the sound output (option).

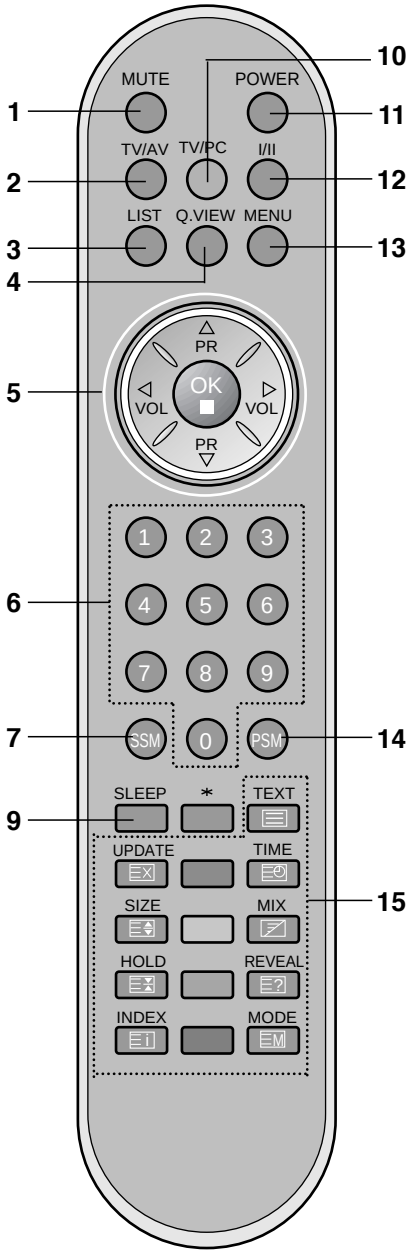
13. MENU
selects a menu.

14. PSM (Picture Status Memory)
recalls your preferred picture setting.

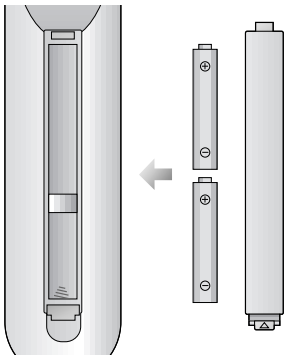
15. TELETEXT BUTTONS (option)
These buttons are used for teletext.
For further details, see the 'Teletext' section.

✱ : No function

COLOURED BUTTONS : These buttons are used for teletext (only TELETEXT models) or programme edit.



Battery installation

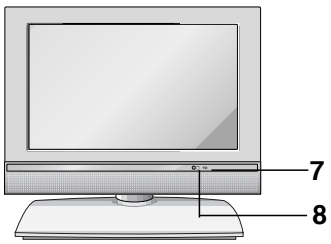


The remote control handset is powered by two AAA/Alkaline type batteries. To load the batteries, turn the remote control handset over and open the battery compartment. Install two batteries as indicated by the polarity symbols (⊕ and ⊖) marked inside the compartment.

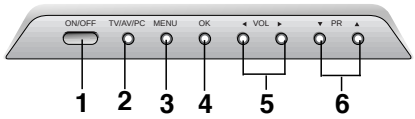
Note : To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.

Location and function of controls

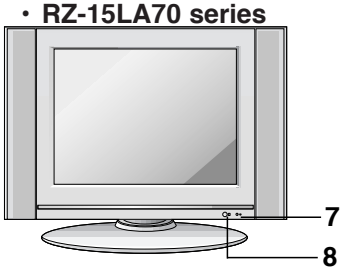
• **RZ-17LZ40 series**



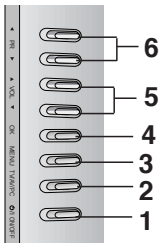
Top panel

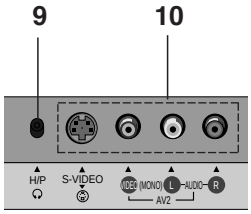


• **RZ-15LA70 series**



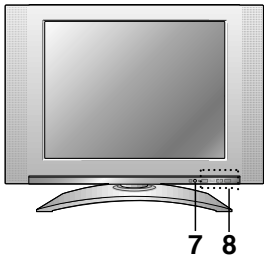
Side panel

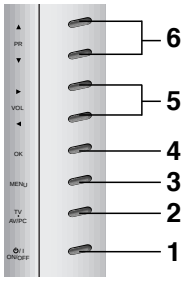




Back panel

• **RZ-15LA66 series**





1. **ON/OFF (⏻ / I)**
   switches the set on from standby or off to standby.
   Note : Power line lives even when the power is off.

2. **TV/AV/PC**
   selects TV, AV or PC monitor mode.
   clears the menu from the screen.
   switches the set on from standby.

3. **MENU**
   selects a menu.

4. **OK**
   accepts your selection or displays the current mode.

5. **◄ / ► (Volume Up/Down)**
   adjusts the volume.
   adjusts menu settings.

6. **▲ / ▼ (Programme Up/Down)**
   selects a programme or a menu item.
   switches the set on from standby.

7. **POWER/STANDBY INDICATOR (⏻)**
   illuminates red in standby mode.
   illuminates green when the set is switched on.

8. **REMOTE CONTROL SENSOR**

9. **HEADPHONE SOCKET**
   Connect the headphone plug to this socket.

10. **AUDIO/VIDEO IN SOCKETS (AV2)**
    Connect the audio/video out sockets of external equipment to these sockets.

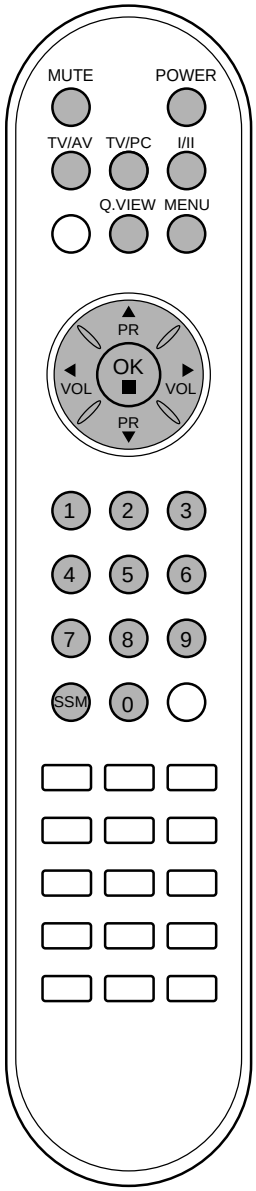
    S-VIDEO/AUDIO IN SOCKETS (SAV)
    Connect the video out socket of an S-VIDEO VCR to the **S-VIDEO** socket.
    Connects the audio out sockets of the S-VIDEO VCR to the audio sockets as in **AV2**.

Basic operation

On and off

1. Press the **POWER**, ▲ / ▼, **TV/AV**, **TV/PC** or NUMBER buttons to switch it on fully.
2. Press the **POWER** button. The set reverts to standby mode.
3. Pull out mains plugs to switch the set off.

Note : If, while the set is switched on, the mains plug is disconnected the set will switch to standby or power on when the mains plug is replaced in the mains power socket.



Programme selection

You can select a programme number with the ▲ / ▼ or NUMBER buttons.

Volume adjustment

Press the ◄ / ► button to adjust the volume.

Quick view

Press the **Q.VIEW** button to view the last programme you were watching.

Note : This function works only when ***Favourite programme*** is set to ***Off***. Otherwise each press of this button will select a stored favourite programme.

Mute function

Press the **MUTE** button. The sound is switched off and the display 🔇 appears.
You can cancel it by pressing the **MUTE**, ◄ / ►, **SSM**, **I/II** button.

Auto Demonstration

To review all the menus programmed in the set, press the **OK** button of the side panel controls for about 10 seconds. To stop auto demonstration, press any button of the side panel controls or the **POWER** button of the remote control.

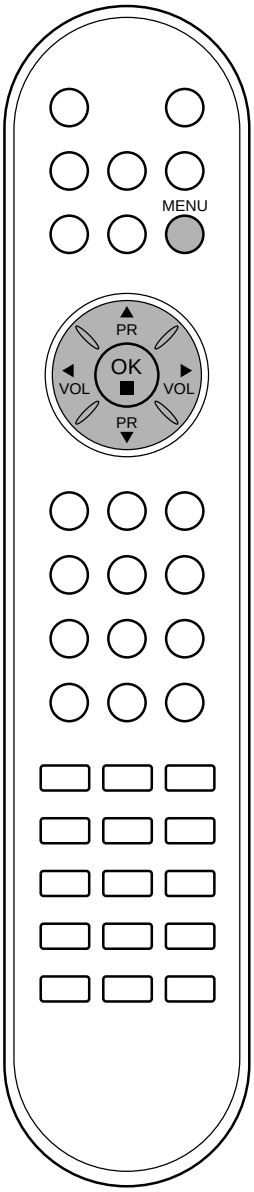
On screen language selection (option)

The menu can be displayed on the screen in your desired language. First select your language.

1. Press the **MENU** button to select the Special menu.
2. Press the ▲ / ▼ button to select **Language**.
3. Press the **OK** button.
4. Press the ▲ / ▼ button to select your desired language.
5. Press the **OK** button.
   All the on screen displays will appear in the selected language.
6. Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.

On screen menus

The dialogue between you and your set takes place on screen with an operator menu. The buttons required for the operating steps are also displayed.

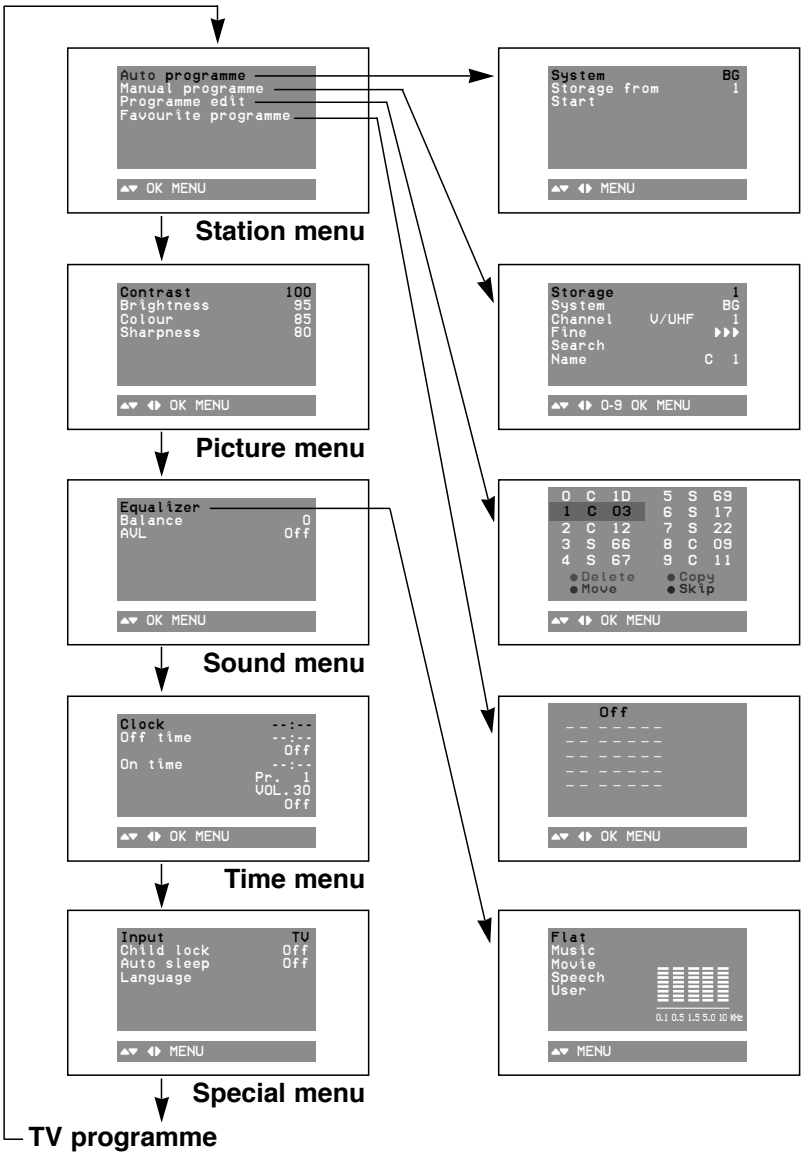


Menu selection

1. Repeatedly press the **MENU** button to display each menu.
2. Press the ▲ / ▼ button to select a menu item.
   The selected menu item changes from white to red.
3. Press the ◄ / ► button to change the setting of a menu item or **OK** button to display the sub menu.

Note :

a. In the teletext mode, menus are not displayed.
b. In some models, the ***Language*** will not be display.



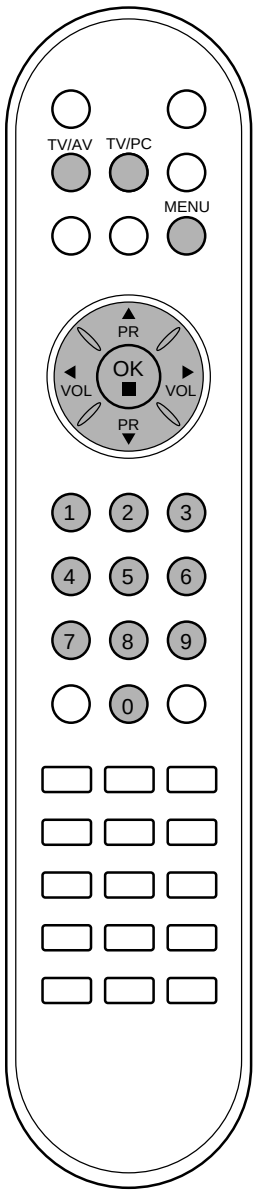
Setting up TV stations

Up to 100 TV stations can be stored in this set by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the ▲ / ▼ or NUMBER buttons to scan the stations you have programmed. Stations can be tuned using automatic or manual modes.

Station Menu

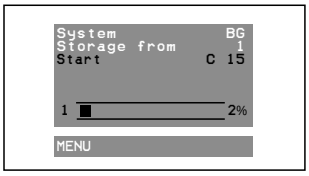
Auto programme tuning

All stations that can be received are stored by this method. It is recommended that you use auto programme during installation of this set.



1. Repeatedly press the **MENU** button to select the Station menu.
2. Press the ▲ / ▼ button to select **Auto programme**.
3. Press the **OK** button to display the **Auto programme** menu.

4. Press the ▲ / ▼ button to select **System**. Select a TV system with the ◀ / ▶ button;
   L : SECAM L/L' (France)
   BG : PAL B/G, SECAM B/G (Europe/East Europe)
   I : PAL I/II (U.K./Ireland)
   DK : PAL D/K, SECAM D/K (East Europe)
5. Press the ▲ / ▼ button to select **Storage from**.
6. Select the beginning programme number with the ◀ / ▶ button or NUMBER buttons. Any number under 10 is entered with a numeric '**0**' in front of it, i.e. '**05**' for 5.
7. Press the ▲ / ▼ button to select **Start**.
8. Press the **OK** button to begin auto programming.



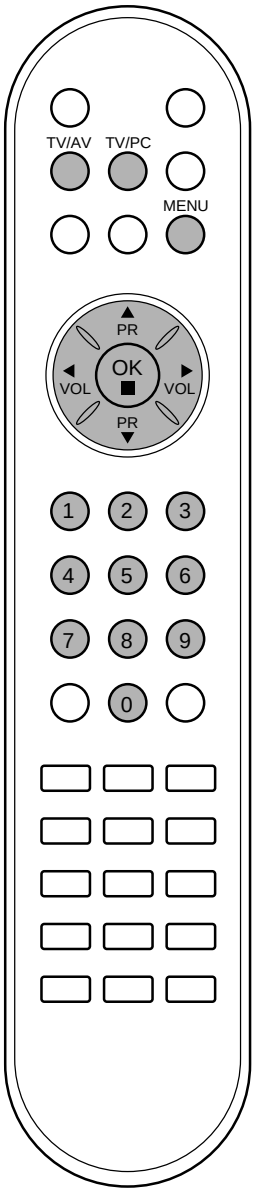
All receivable stations are stored. The station name is stored for stations which broadcast VPS (Video Programme Service), PDC (Programme Delivery Control) or TELETEXT data. If no station name can be assigned to a station, the channel number is assigned and stored as **C** (V/UHF 01-69) or **S** (Cable 01-47), followed by a number.

To stop auto programming, press the **MENU** button.
When auto programming is completed, the **Programme edit** menu appears on the screen. See the 'Programme edit' section to edit the stored programme.

9. Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.

Setting up TV stations

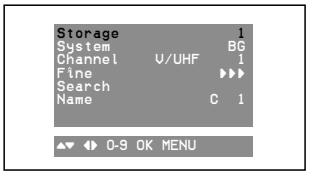
Station Menu



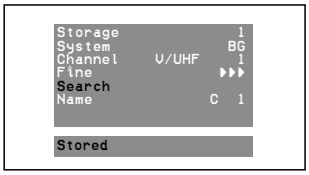
Manual programme tuning

Manual programme lets you manually tune and arrange the stations in whatever order you desire. Also you can assign a station name with five characters to each programme number.

1. Repeatedly press the **MENU** button to select the Station menu.
2. Press the ▲ / ▼ button to select **Manual programme**.
3. Press the **OK** button to display the **Manual programme** menu.



4. Press the ▲ / ▼ button to select **Storage**.
5. Select the desired programme number (0 to 99) with the ◄ / ► button or NUMBER buttons. Any number under 10 is entered with a numeric **'0'** in front of it, i.e. **'05'** for 5.
6. Press the **OK** button.
7. Press the ▲ / ▼ button to select **System**.
8. Select a TV system with the ◄ / ► button;
   L : SECAM L/L' (France)
   BG : PAL B/G, SECAM B/G (Europe/East Europe)
   I : PAL I/II (U.K./Ireland)
   DK : PAL D/K, SECAM D/K (East Europe)
9. Press the **OK** button.
10. Press the ▲ / ▼ button to select **Channel**.
11. Press the ◄ / ► button to select **V/UHF** or **Cable** on the **Channel** pull-down menu.
    If possible, select the channel number directly with the number buttons. Any number under 10 is entered with a numeric **'0'** in front of it, i.e. **'05'** for 5.
12. Press the **OK** button.
13. Press the ▲ / ▼ button to select **Search**.
14. Press the ◄ / ► button to commence searching on the **Search** pull-down menu. If a station is found the search will stop.
15. Press the **OK** button to store it. The display **Stored** will appear.



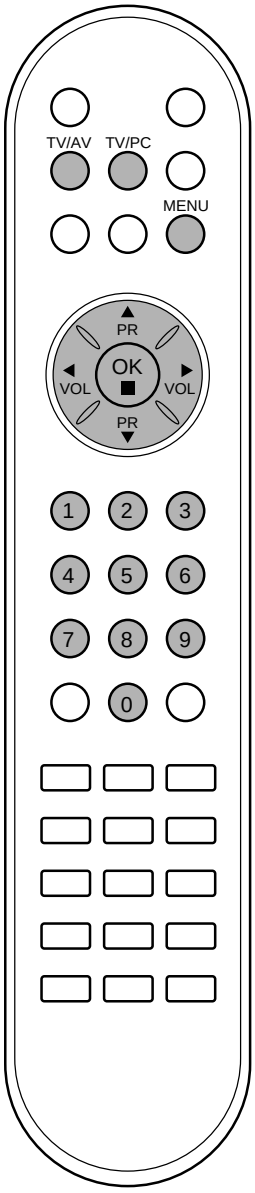
16. To store another station, repeat steps 4 to 15.
17. Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.

Setting up TV stations

Assigning a station name

1. Repeat the ‘Manual programme tuning’ steps 1 to 3.
2. Press the ▲ / ▼ button to select **Name**.
3. Press the ▶ button and then use ▲ / ▼ button to select a blank, +, -, the numeric **0** to **9** and the alphabet **A** to **Z**.
4. Select the next position by pressing the ◀ / ▶ button and then make your choice of the second character, and so on.
5. Press the **OK** button.
6. Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.

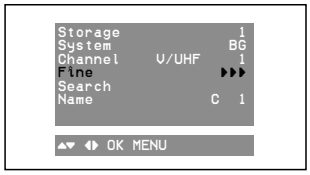
Station Menu



Fine tuning

Normally fine tuning is only necessary if reception is poor.

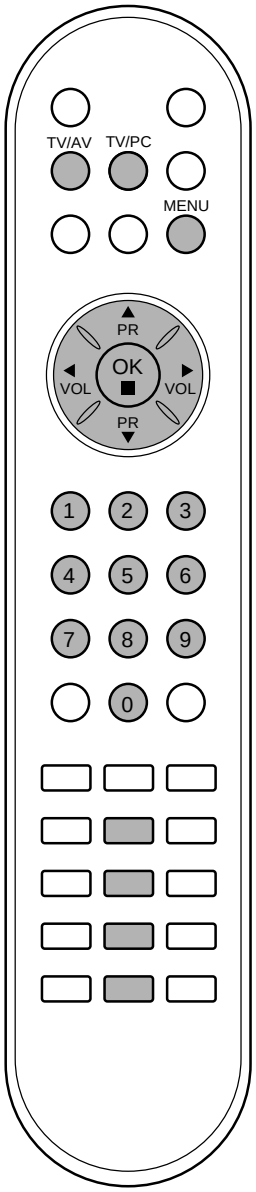
1. Repeat the ‘Manual programme tuning’ steps 1 to 3.
2. Press the ▲ / ▼ button to select **Fine**.
3. Press the ◀ / ▶ button to fine tune for the best picture and sound.



4. Press the **OK** button.
5. Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.
   The finely tuned programme will be indicated by a yellow number during programme selection.

Setting up TV stations

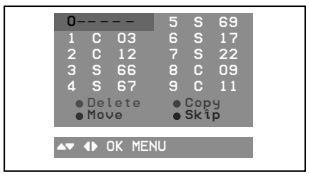
Station Menu



Programme edit

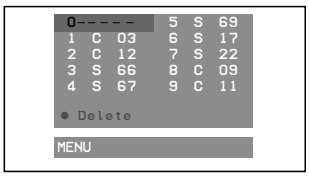
This function enables you to delete or skip the stored programmes. Also you can move some stations to other programme numbers or insert a blank station data into the selected programme number.

1. Repeatedly press the **MENU** button to select the Station menu.
2. Press the ▲ / ▼ button to select **Programme edit**.
3. Press the **OK** button to display the **Programme edit** menu.



Deleting a programme

1. Select a programme to be deleted with the ▲ / ▼ or ◄ / ► button.
2. Press the RED button twice.
   The selected programme is deleted, all the following programmes are shifted up one position.

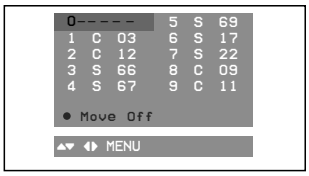


Copying a programme

1. Select a programme to be copied with the ▲ / ▼ or ◄ / ► button.
2. Press the GREEN button.
   All the following programmes are shifted down one position.

Moving a programme

1. Select a programme to be moved with the ▲ / ▼ or ◄ / ► button.
2. Press the YELLOW button.
3. Move the programme to the desired programme number with the ▲ / ▼ or ◄ / ► button.
4. Press the YELLOW button again to release this function.



Skipping a programme number

1. Select a programme number to be skipped with the ▲ / ▼ or ◄ / ► button.
2. Press the BLUE button. The skipped programme turns to blue.
3. Press the BLUE button again to release the skipped programme.
   When a programme number is skipped it means that you will be unable to select it using the ▲ / ▼ button during normal TV viewing. If you want to select the skipped programme, directly enter the programme number with the NUMBER buttons or select it in the programme edit or table menu.

Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.

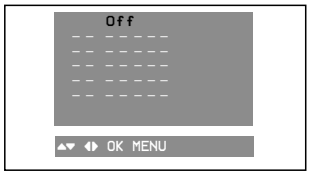
Setting up TV stations

Favourite programme

Station Menu

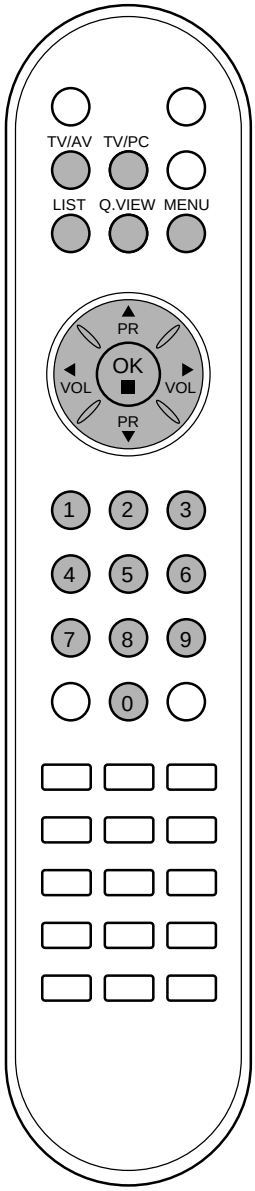
This function lets you select your favourite programmes directly.

1. Repeatedly press the **MENU** button to select the Station menu.
2. Press the ▲ / ▼ button to select **Favourite programme**.
3. Press the **OK** button to display the **Favourite programme** menu.



4. Press the ◄ / ► button to select **On**.
5. Press the ▲ / ▼ button to select **-- -----**.
6. Select a desired programme with the ◄ / ► button or NUMBER buttons. Any number under 10 is entered with a numeric **'0'** in front of it, i.e. **'05'** for 5.
7. To store another programme, repeat steps 5 to 6.
   You can store up to 5 programmes.
8. Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.

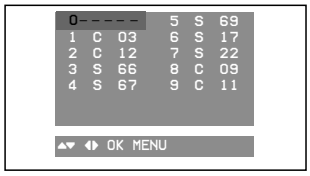
Repeatedly press the **Q.VIEW** button to select stored favourite programmes.



Calling the programme table

You can check the programmes stored in the memory by displaying the programme table.

Displaying programme table
Press the **LIST** button to display the Programme table menu.
The programme table appears on the screen. One programme table contains ten programmes as below.



Note :
a. You may find some blue programmes. They have been set up to be skipped by auto programming or in the programme edit mode.
b. Some programmes with the channel number shown in the programme table indicate there is no station name assigned.

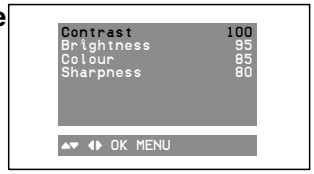
Selecting a programme in the programme table
Select a programme with the ▲ / ▼ or ◄ / ► button.
Then press the **OK** button.
The set switches to the chosen programme number.

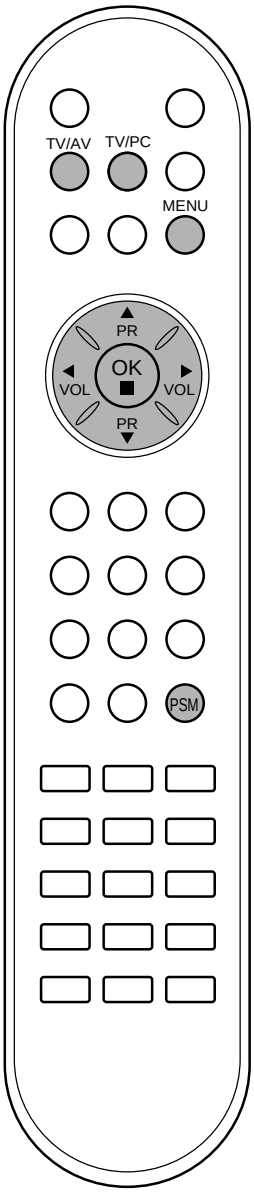
Paging through a programme table
There are 10 programme table pages in which contain 100 programmes.
Pressing the ▲ / ▼ or ◄ / ► button repeatedly turns the pages.

Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.

Picture adjustment

Picture Menu

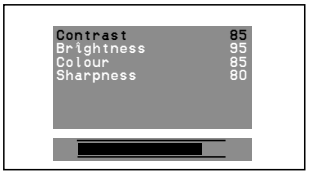




Picture adjustment

You can adjust picture contrast, brightness, colour intensity, sharpness and tint (NTSC AV only) to the levels you prefer.

1. Repeatedly press the **MENU** button to select the Picture menu.
2. Press the ▲ / ▼ button to select the desired picture item.
3. Press the ◄ / ► button to make appropriate adjustments.



4. Press the **OK** button to store it for the picture User.
   The display **Stored** appears.

Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.

You can also recall a desired picture (**Dynamic**, **Standard**, **Mild**, **Game** or **User**) with **PSM** button on the remote control. The picture **Dynamic**, **Standard**, **Mild** and **Game** are programmed for optimum picture reproduction at the factory and cannot be changed.

Picture format (option)

You can watch TV in various picture formats; Wide, 14:9, 4:3.
Repeatedly press the **ARC** button to select your desired picture format.

Wide
You can enjoy the cinema (the picture format of 16:9) or general TV programme through the 16:9 mode.
The screen 16:9 is viewed just like that but the screen 4:3 is magnified to the left and right so that the screen 16:9 is full.

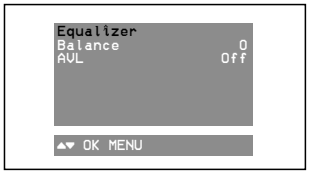
14:9
You can enjoy the picture format of 14:9 or general TV programme through the 14:9 mode.
The screen 14:9 is viewed just like that the screen 4:3 is magnified to the upper / lower and left / right.

4:3
This picture format is 4 to 3 of general TV.

Note : You are available to Wide and 4:3 in **PC** mode.

Sound adjustment

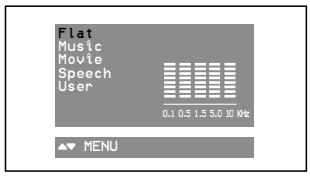
Sound adjustment



Sound Menu

You can select your preferred sound setting; Flat, Music, Movie or Speech and you can also adjust the sound frequency of equalizer, balance. If you switch AVL to on, the set automatically keeps on an equal volume level even if you change programmes.

1. Repeatedly press the **MENU** button to select the Sound menu.
2. Press the ▲ / ▼ button to select the desired sound item; **Equalizer**, **Balance** or **AVL**.
3. Press the ◄ / ► button to make desired adjustment.



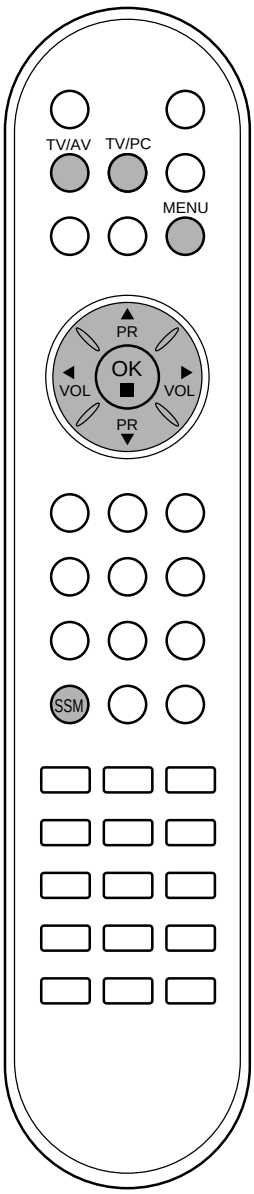
Press the **OK** button in **Equalizer** to set the **Equalizer User**.
Press the ▲ / ▼ button to select your preferred setting ; **Flat**, **Music**, **Movie**, **Speech** or **User**.
To set the **Equalizer User**,

a. Select **User** by pressing the ▲ / ▼ button.
b. Select a sound band by pressing the ◄ / ► button.
c. Select appropriate sound level with the ▲ / ▼ button.
d. Press the **OK** button to store it for the sound **User**.
The display **Stored** appears.

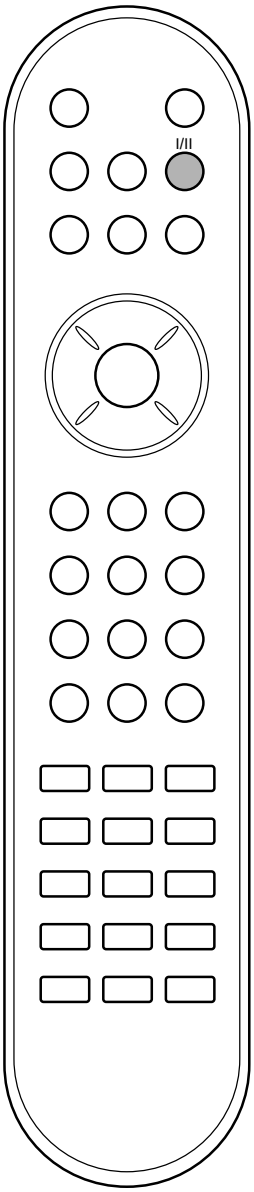
Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.

You can also recall a desired sound setting (**Flat**, **Music**, **Movie**, **Speech** or **User**) with **SSM** button on the remote control. The sound settings **Flat**, **Music**, **Movie** and **Speech** are programmed for optimum sound reproduction at the factory and cannot be changed.

Note : If you press the **SSM** button after making appropriate adjustment on the ***User*** sub menu, the display ***User*** automatically appears even though you have already set a factory preset setting; ***Flat***, ***Music***, ***Movie*** or ***Speech***.



Sound adjustment



Stereo/Dual reception

When a programme is selected, the sound information for the station appears after the programme number and station name disappear.

Broadcast	On Screen Display
Mono	**MONO**
Stereo	**STEREO**
Dual	**DUAL I**

Mono sound selection
In stereo reception if the stereo signal is weak, you can switch to mono by pressing the **I/II** button twice. In mono reception the depth of sound is improved. To switch back to stereo, press the **I/II** button twice again.

Language selection for dual language broadcast
If a programme is received in two languages (dual language), you can switch to **DUAL I**, **DUAL II** or **DUAL I+II** by pressing the **I/II** button repeatedly.
DUAL I sends the primary broadcast language to the loudspeakers.
DUAL II sends the secondary broadcast language to the loudspeakers.
DUAL I+II sends a separate language to each loudspeaker.

NICAM reception (option)

If your set is equipped with the receiver for NICAM reception, the high quality NICAM (Near Instantaneous Companding Audio Multiplex) digital sound can be received.
Sound output can be selected according to the type of received broadcast as follows by pressing the **I/II** button repeatedly.

1. When NICAM mono is received, you can select **NICAM MONO** or FM MONO.
2. When NICAM stereo is received, you can select **NICAM STEREO** or FM MONO. If the stereo signal is weak, switch to FM mono.
3. When NICAM dual is received, you can select **NICAM DUAL I**, **NICAM DUAL II** or **NICAM DUAL I+II** or **MONO**. When FM mono is selected the display **MONO** appears on the screen.

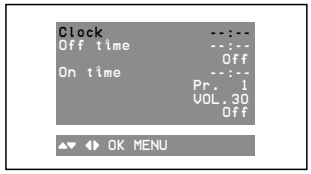
Sound output selection

In AV mode, you can select output sound for the left and right loudspeakers.

Repeatedly press the **I/II** button to select the sound output.
L+R : Audio signal from audio L input is sent to left loud-speaker and audio signal from audio R input is sent to right loudspeaker.
L+L : Audio signal from audio L input is sent to left and right loudspeakers.
R+R : Audio signal from audio R input is sent to left and right loudspeakers.

Time setting

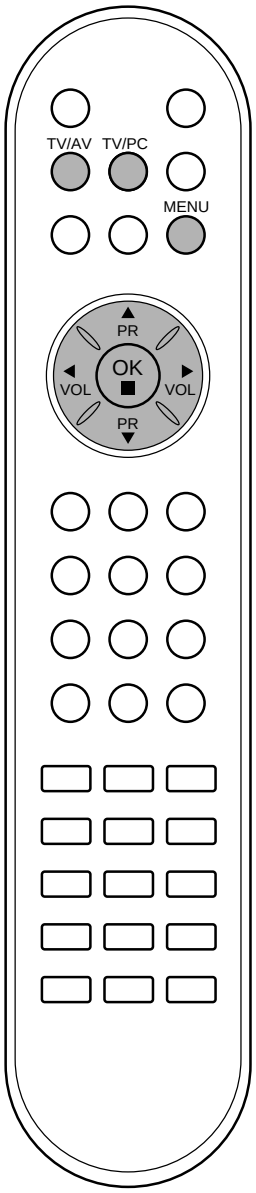
Clock



Time Menu

You must set the time correctly before using on/off time function.

1. Repeatedly press the **MENU** button to select the Time menu.
2. Press the ▲ / ▼ button to select **Clock**.
3. Press the ► button and then press the ◄ / ► button to select the desired timer item (hour, minute).
4. Make desired adjustment with the ▲ / ▼ button on the desired timer item.
5. Press the **OK** button.
6. Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.



Off time

The off timer automatically switches the set to standby at the preset time.

1. Repeatedly press the **MENU** button to select the Time menu.
2. Press the ▲ / ▼ button to select **Off time**.
3. Press the ► button and then press the ◄ / ► button to select the desired timer item (hour, minute).
4. Make desired adjustment with the ▲ / ▼ button on the desired timer item.
5. Press the ► button and then ▲ / ▼ button to select **On**.
6. Press the **OK** button.
7. Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.

On time

The on timer automatically switches on at the preset time with desired programme number and volume.

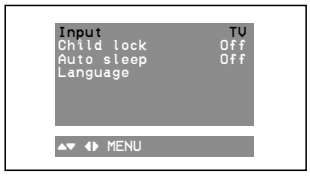
1. Repeatedly press the **MENU** button to select the Time menu.
2. Press the ▲ / ▼ button to select **On time**.
3. Press the ► button and then press the ◄ / ► button to select the desired timer item; **--:--**, **Pr.** or **VOL.**.
4. Make desired adjustment with the ▲ / ▼ button on the desired timer item.
5. Press the ► button and then ▲ / ▼ button to select **On**.
6. Press the **OK** button.
7. Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.

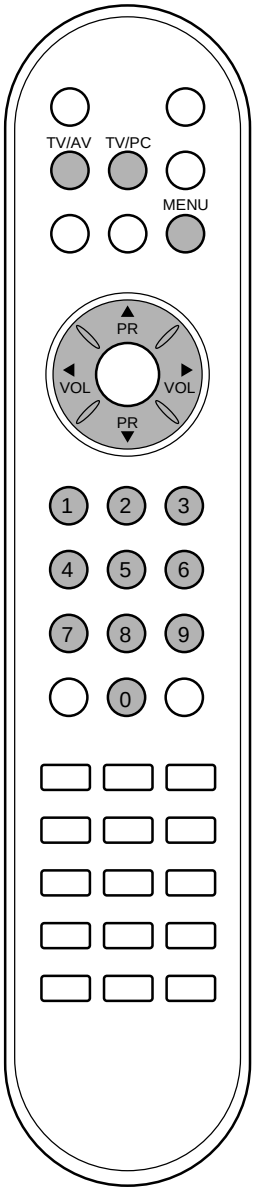
Note :

a. In the event of power interruption (disconnection or power failure), the clock must be reset.
b. Two hours after the set is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.
c. Once the on or off time is set, these functions operate daily at the preset time.

Other functions

Special Menu





TV, AV and PC monitor modes

Inputs can be set for TV, AV or PC monitor mode. AV mode is used when a video cassette recorder (VCR), or other equipment is connected to the set.

Note : When a VCR is connected via the aerial socket the set is used in TV mode. See the 'Connection of external equipment' section.

1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the ▲ / ▼ button to select **Input**.
3. Press the ◄ / ► button to select **TV**, **AV1**, **AV2**, **SAV**(or **S-VIDEO**) or **PC**.
   The AV and PC modes are :
   AV1 : VCR connected to the Euro scart socket of the set
   AV2 : VCR connected to the **AV 2** of the set
   SAV(or S-VIDEO) : S-VIDEO VCR connected to the **S-VIDEO** sockets of the set
   PC : PERSONAL COMPUTER connected to the PC socket of the set
4. Repeatedly press the **TV/AV** or **TV/PC** button to return to normal TV viewing.

Alternatively you can select the TV, AV or PC mode by pressing the **TV/AV** or **TV/PC** button.

In AV mode, to return to TV mode, press the ▲ / ▼ or NUMBER buttons.

Auto AV switching

If your VCR outputs an AV switching voltage when connected to the Euro scart socket, the set will switch to **AV 1** mode automatically. But if you want to keep on watching in TV mode, press the ▲ / ▼ or NUMBER buttons. Press the **TV/AV** button to return to AV modes.

Child lock

The TV can be set so that the remote control handset is needed to control it. This feature can be used to prevent unauthorized viewing.

1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the ▲ / ▼ button to select **Child lock**.
3. Press the ◄ / ► button on the remote control handset to select **On**.
4. Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.

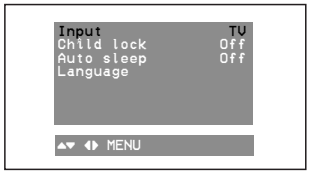
With the lock on, the display **Child lock on** appears on the screen if any button on the side panel is pressed while viewing the TV.

Other functions

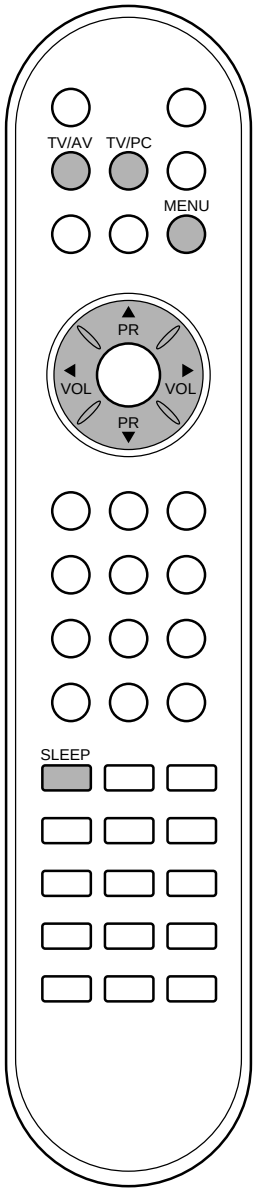
Auto sleep

If you select **Auto sleep On** the set will automatically switch itself to standby mode approximately ten minutes after a TV station stops broadcasting.

1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the ▲ / ▼ button to select **Auto sleep**.
3. Press the ◄ / ► button to select **On**.
4. Press the **TV/AV** or **TV/PC** button to return to normal TV viewing.



Special Menu



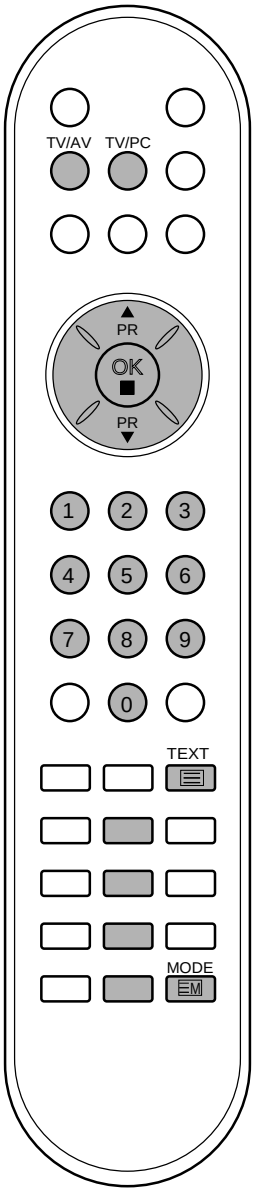
Sleep timer

You don't have to remember to switch the set off before you go to sleep. The sleep timer automatically switches the set to standby after the preset time has elapsed.
Press the **SLEEP** button to select the number of minutes. The display ⏻ **0** will appear on the screen, followed by **10**, **20**, **30**, **60**, **90**, **120**, **180** and **240**. The timer begins to count down from the number of minutes selected.

Note :

a. To view the remaining sleep time, press the **SLEEP** button once.
b. To cancel the sleep time, repeatedly press the **SLEEP** button until the display ⏻ **0** appears.
c. In the event of power interruption (disconnection or power failure), the set releases the preset sleep time.

Teletext (option)



Teletext (or TOP text) is an optional function, therefore only a set with the teletext system can receive the teletext broadcast.

Teletext is a free service broadcast by most TV stations which gives up-to-the-minute information on news, weather, television programmes, share prices and many other topics.

The teletext decoder of this TV can support the SIMPLE, TOP and FASTEXT systems. SIMPLE (standard teletext) consists of a number of pages which are selected by directly entering the corresponding page number. TOP and FASTEXT are more modern methods allowing quick and easy selection of teletext information.

Switch on/off

Press the **TEXT** button to switch to teletext. The initial page or last page appears on the screen.
Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.
Press the **TEXT**, **TV/AV** or **TV/PC** button to switch off teletext. The previous mode reappears.

SIMPLE text

Page selection

1. Enter the desired page number as a three digit number with the NUMBER buttons. If during selection you press a wrong number, you must complete the three digit number and then re-enter the correct page number.
2. The ▲ / ▼ button can be used to select the preceding or following page.

Programming a colour button in LIST mode

If the TV is in SIMPLE text, TOP text or FASTEXT mode, press the EM button to switch to LIST mode.

Four teletext page numbers of your choice can be colour coded and easily selected by pressing the corresponding coloured button on the remote control handset.

1. Press a coloured button.
2. Using the NUMBER buttons, select the page you wish to programme.
3. Press the **OK** button. Then the selected page is stored as the selected page number with blinking once. From now on, you can select this page with the same coloured button.
4. The three other coloured buttons are programmed in this way.

Teletext (option)

TOP text (option)

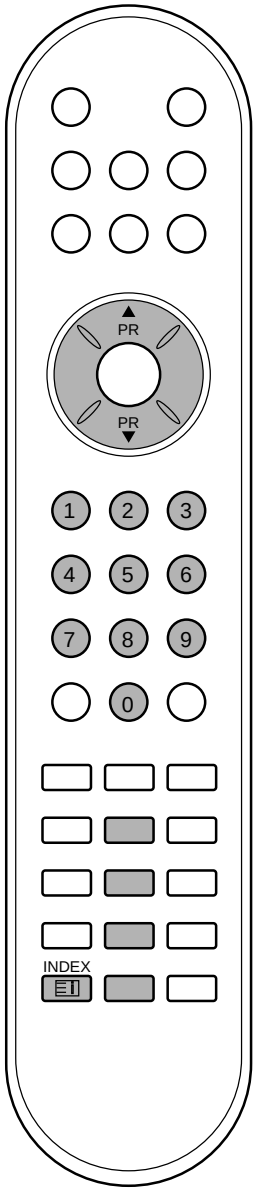
The user guide displays four fields-red, green, yellow and blue at the bottom of the screen. The yellow field denotes the next group and the blue field indicates the next block.

Block / group / page selection

1. With the blue button you can progress from block to block.
2. Use the yellow button to proceed to the next group with automatic overflow to the next block.
3. With the green button you can proceed to the next existing page with automatic overflow to the next group.
   Alternatively the ▲ button can be used.
4. The red button permits to return to previous selection. Alternatively the ▼ button can be used.

Direct page selection

Corresponding to the SIMPLE teletext mode, you can select a page by entering it as a three digit number using the NUMBER buttons in TOP mode.



FASTEXT mode

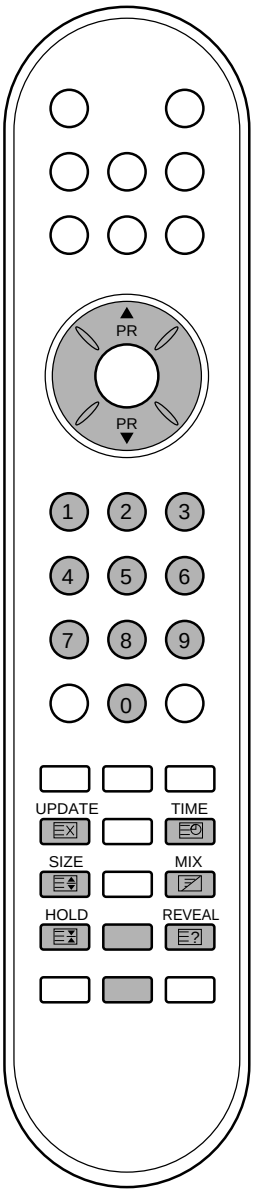
The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

Page selection

1. Press the [INDEX] button to select the index page.
2. You can select the pages which are colour coded along the bottom line with the same coloured buttons.
3. Corresponding to the SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.
4. The ▲ / ▼ button can be used to select the preceding or following page.

Teletext (option)

Special teletext functions



REVEAL
Press this button to display concealed information, such as solutions of riddles or puzzles.
Press this button again to remove the information from the display.

SIZE
Selects double height text.
Press this button to enlarge the top half of the page.
Press this button again to enlarge the bottom half of the page.
Press this button again to return to the normal display.

UPDATE
Displays the TV picture on the screen while waiting for the new teletext page. The display will appear at the top left hand corner of the screen. When the updated page is available then display will change to the page number.
Press this button to view the updated teletext page.

HOLD
Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this button is pressed the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inhibited.
To continue press this button again.

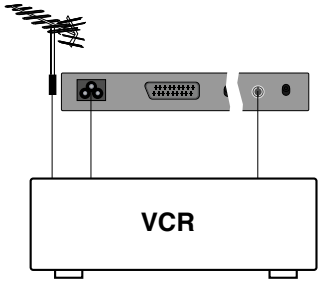
MIX
Displays the teletext pages superimposed on the TV picture.
To switch the TV picture off press this button again.

TIME
When viewing a TV programme, press this button to display the time at the top right hand corner of the screen. Press this button again to remove the display. In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN, ▲ / ▼ or NUMBER buttons.
Press again to exit this function.

Connection of external equipment

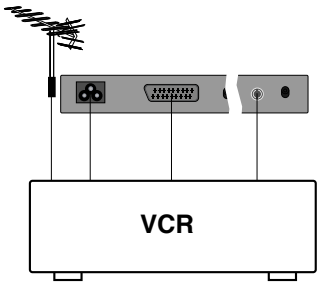
You can connect additional equipment, such as VCRs, camcorders etc. to your set. Examples are shown below.

Aerial socket



1. Connect the RF out socket of the VCR to the aerial socket of the set.
2. Connect the aerial cable to the RF aerial in socket of the VCR.
3. Store the VCR channel on a desired programme number using the 'Manual programme tuning' section.
4. Select the programme number where the VCR channel is stored.
5. Press the **PLAY** button on the VCR.

Euro scart socket

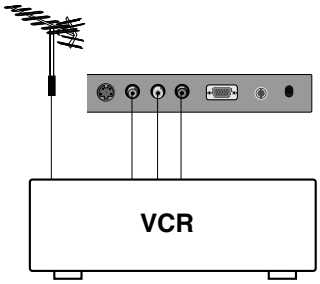


1. Connect the Euro scart socket of the VCR to the Euro scart socket of the set.
2. Press the **PLAY** button on the VCR.
   If your VCR outputs an AV switching voltage when connected to the Euro scart socket, the set will switch to **AV1** mode automatically. But if you want to keep on watching in TV mode, press the ▲ / ▼ or NUMBER buttons.

   Otherwise press the **TV/AV** button on the remote control handset to select **AV1**. The VCR playback picture appears on the screen.

   You can also record programmes received by the TV on video tape.

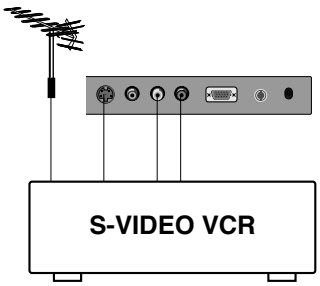
Audio/Video in sockets



1. Connect the audio/video out sockets of the VCR to audio/video in sockets of the set.
2. Press the **TV/AV** button to select **AV2**.
3. Press the **PLAY** button on the VCR.
   The VCR playback picture appears on the screen.

Note : If you have a mono VCR, connect the audio cable from the VCR to the **AUDIO L/MONO** socket of the set.

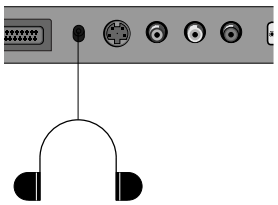
Connection of external equipment



S-Video/Audio in sockets (S-AV) (option)

When connecting an S-VIDEO VCR to the **S-VIDEO** socket, the picture quality will be further improved.

1. Connect the S-Video socket of the VCR to the **S-VIDEO** socket of the set.
2. Connect the audio cable from the S-VIDEO VCR to the **AUDIO** sockets of the set.
3. Select **SAV** (or **S-VIDEO**) by pressing the **TV/AV** button repeatedly.
4. Press the **PLAY** button on the VCR.
   The VCR playback picture appears on the screen.



Headphone socket

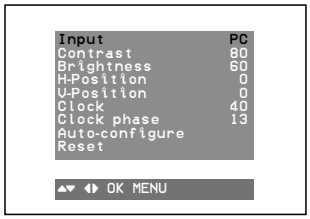
Insert the headphone plug to the headphone socket of the set. You can listen to the sound through the headphone. To adjust the headphone volume, press the ◄ / ► button. If you press the **MUTE** button, the sound from the headphone is switched off.

Connection of PC

Picture adjustment

You can adjust picture contrast, brightness, horizontal/vertical position, clock, clock phase, auto-configure and reset as you prefer.

1. Repeatedly press the **TV/AV** or **TV/PC** button to select the PC monitor mode.
2. Press the **MENU** button to select the Picture menu.



3. Press the ▲ / ▼ button to select the desired picture item.
4. Press the ◄ / ► button to make appropriate adjustments.

H-Position / V-Position
This function is to adjust picture to left/right and up/down as you prefer.

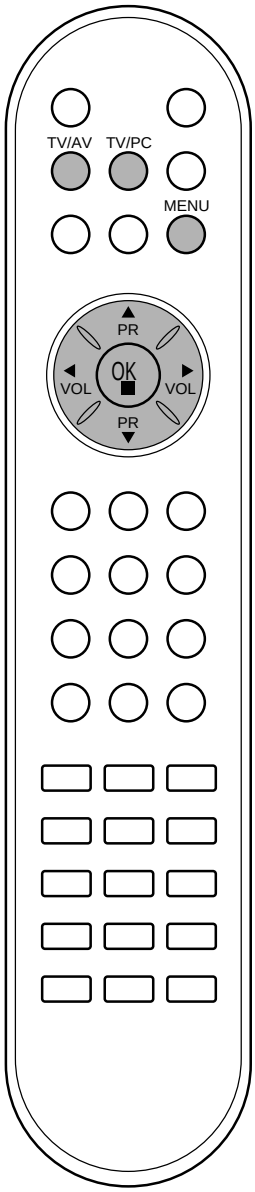
Clock
This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.

Clock Phase
This function allows you to remove any horizontal noise and clear or sharpen the image of characters.

Auto-configure
This function is for the automatic adjustment of the screen position, clock and clock phase. The displayed image will disappear for a few seconds while the Auto-configuration is in progress.

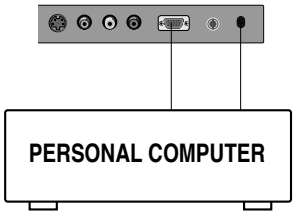
Note : Some signal from some graphics boards may not function properly. If the results are unsatisfactory, adjust your monitor's position, clock and clock phase manually.

Reset
This function allows you to return to the good picture reproduction programmed at the factory and cannot be changed.



5. Press the **OK** button to store it for the PC monitor picture. The display **Stored** appears.
6. Press the **TV/AV** or **TV/PC** button to return to PC mode.

Connection of PC



PC in socket (D-Sub jack)

1. Connect the signal cable from the monitor output socket of the PERSONAL COMPUTER to the PC input socket of the set.
2. Connect the audio cable from the PC to the **PC SOUND** socket of the set.
3. Press the **TV/AV** or **TV/PC** button to select ***PC***.
4. Switch on the PC, and the PC screen appears on the set. The set can be operated as the PC monitor.

Note : If you have an Apple macintosh, connect the VGA desktop block (not supplied) from the 3 row 15 pin to 2 row 15 pin with the signal cable and connect the VGA desktop block to the Macintosh.

Displayable Monitor Specification

MODE	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
VGA	640x400(option)	37.9KHz	85Hz
	640x480	31.5KHz	60Hz
	640x480	35.0KHz	67Hz
	640x480	37.9KHz	72Hz
	640x480	37.5KHz	75Hz
	640x480	43.3KHz	85Hz
SVGA	800x600	35.2KHz	56Hz
	800x600	37.9KHz	60Hz
	800x600	48.1KHz	72Hz
	800x600	46.9KHz	75Hz
	800x600	53.7KHz	85Hz
(MAC)	832x624	49.7KHz	75Hz
XGA	1024x768	48.4KHz	60Hz
	1024x768	56.5KHz	70Hz
	1024x768	60.2KHz	75Hz

(Synchronization input form : separate)

Note :

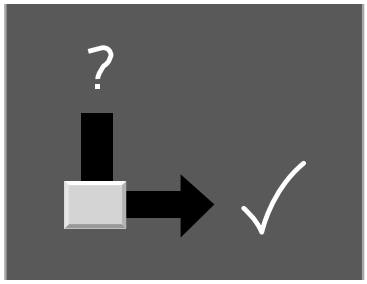
a. If the set is cold, there may be a small “flicker” when the set is switched on. This is normal, there is nothing wrong with the set.
b. If possible, use the VESA 1,024x768@60Hz video mode to obtain the best image quality for your LCD monitor. If used under the other resolutions, some scaled or processed pictures may appear on the screen. The set has been pre-adjusted to the mode VESA 1,024x 768@60Hz.
c. Some dot defects may appear on the screen, like Red, Green or Blue spots. However, this will have no impact or effect on the monitor performance.
d. Do not press the LCD screen with your finger for a long time as this may incur some afterimages.
e. When the PC screen appears on the set, some message may appear on the screen, the message is different depending on Window system version (Win98, 2000). If message appears, click the “Next” continuously until message clears.
f. If the message **“*Out of Range*”** appears on the screen, adjust the PC as in the ‘Displayable Monitor Specification’ section.

DPM (Display Power Management) mode

When the PC is in the power saving mode, automatically the monitor goes into DPM mode to save the energy.

Troubleshooting check list

Symptoms



No picture, no sound

Sound OK, poor picture

Picture OK, poor sound

Picture blurred

Lines or streaks in picture

Poor reception on some channels

No colour

Poor colour

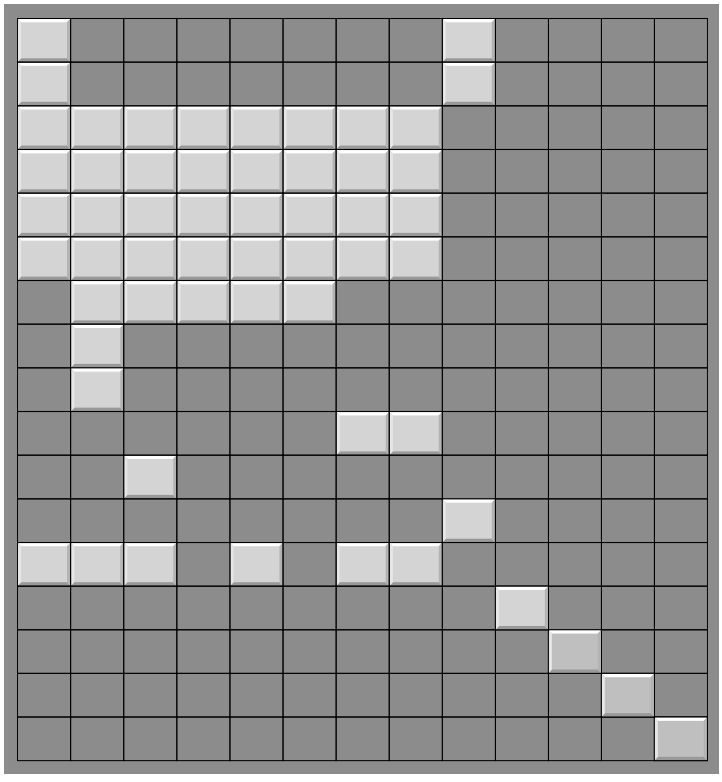
Remote control does not work

Incorrect position

Vertical bars or stripes on background

Horizontal noise

Signal Cable message appears



Check these items and try to adjust these

The mains plug-(plugged in and switched on)

Is the TV switched on

Try another channel (weak signal)

Check aerial (plugged into TV?)

Check aerial (broken lead?)

Check aerial

Check for local interference

Adjust contrast

Adjust brightness

Adjust colour

Adjust volume

Check the batteries in remote control

Check Audio/Video sockets (VCR only)

Auto-configure or adjust the H/V position

Auto-configure or adjust Clock

Auto-configure or adjust Clock Phase

Is the Signal Cable connected or loose